

FIG. 1A

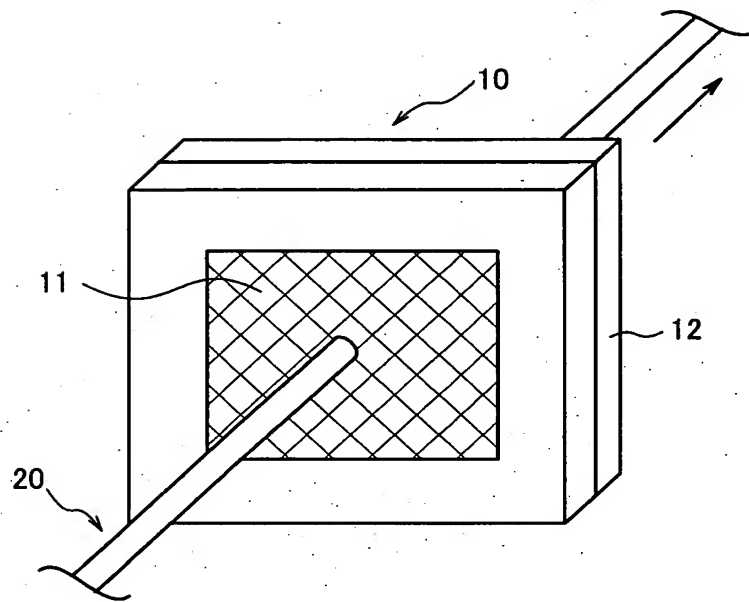


FIG. 1B

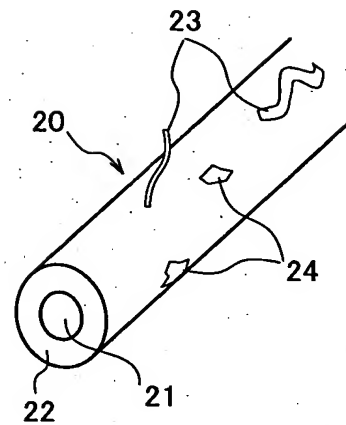


FIG. 1C

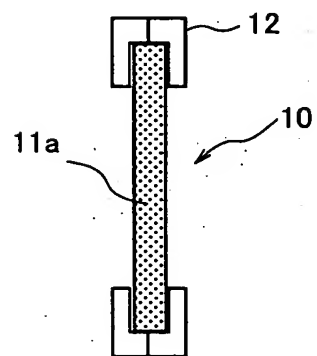


FIG. 1D

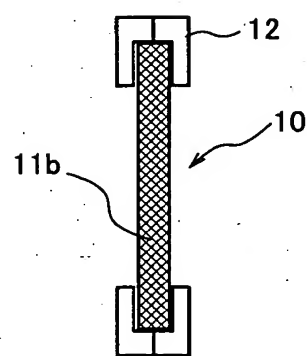


FIG.2

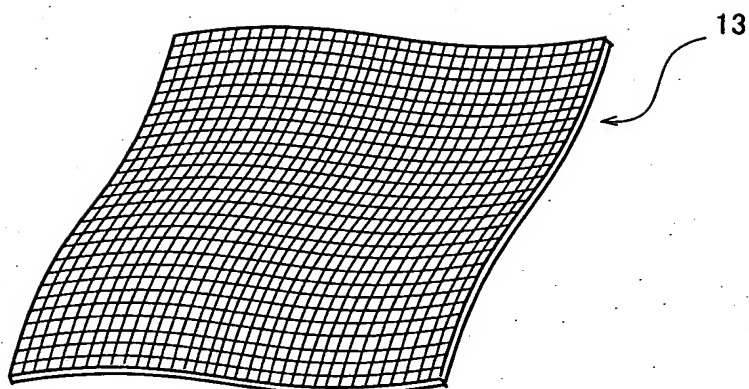


FIG.3

| SAMPLE No. | CLEANING MEMBER | ERRORNEOUS DETECTIONS OF UNEVEN SPOTS (TIMES/5km) | ERRORNEOUS DETECTIONS OF UNEVEN SPOTS (TIMES/km) |
|------------|------------------------|---|--|
| 1 | SINGLE-LAYERED SPONGE | 17 | 3.4 |
| 2 | FOUR-LAYERED SPONGE | 13 | 2.6 |
| 3 | FOUR-LAYERED STOCKING | 10 | 2.0 |
| 4 | EIGHT-LAYERED STOCKING | 0 | 0.0 |
| 5 | NONE | 27 | 5.4 |

FIG.4A

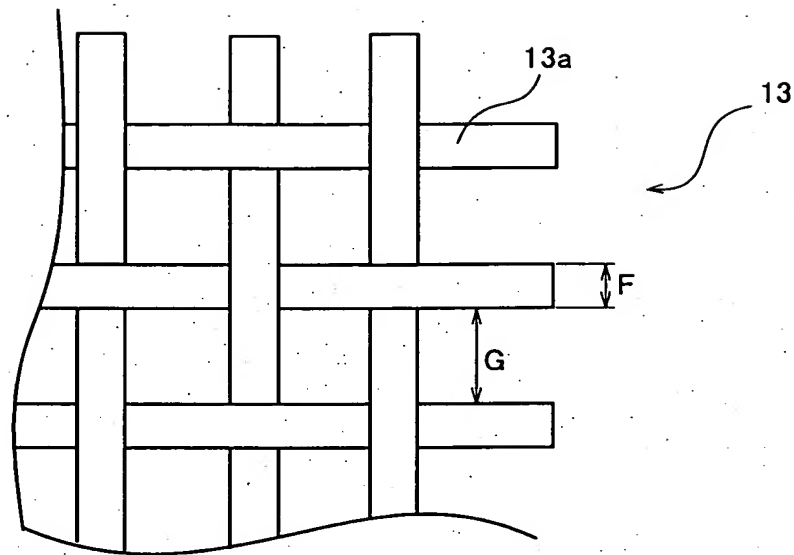


FIG.4B

OUTER DIAMETER OF OPTICAL FIBER $D=0.245(\text{mm})$

| $\begin{matrix} \text{F (mm)} \\ \text{G (mm)} \end{matrix}$ | 0.007 | 0.04 | 0.12 |
|--|-------|------|------|
| 0.07 | x | O | O |
| 0.18 | x | O | O |
| 0.25 | x | x | x |

O: NO SEPARATION OF
COLOR LAYERx: SEPARATION OF
COLOR LAYER

FIG.5A

| OUTER DIAMETER OF OPTICAL FIBER D=0.245mm | | MESH SIZE G=0.18mm |
|--|--|--|
| COLORABLE LENGTH L (km) | THREAD DIAMETER F=0.04mm NUMBER OF (LAMINATED SHEETS) | THREAD DIAMETER F=0.12mm NUMBER OF (LAMINATED SHEETS) |
| 30 | 16 | 5 |
| 50 | 24 | 8 |
| 100 | 48 | 16 |

FIG.5B

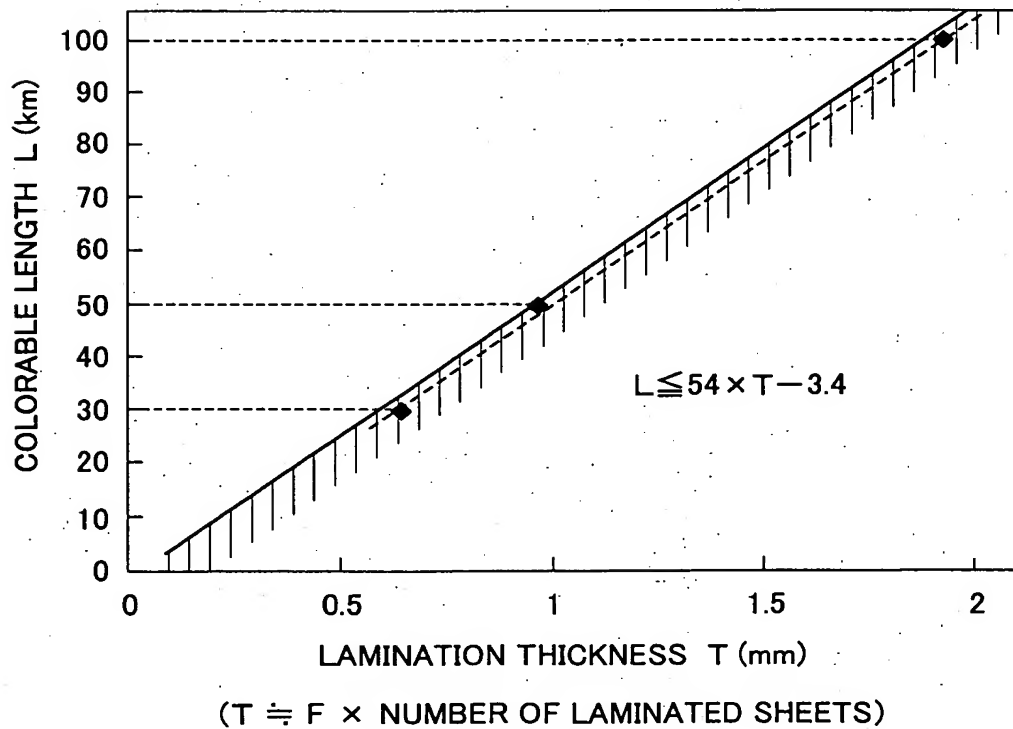


FIG. 6

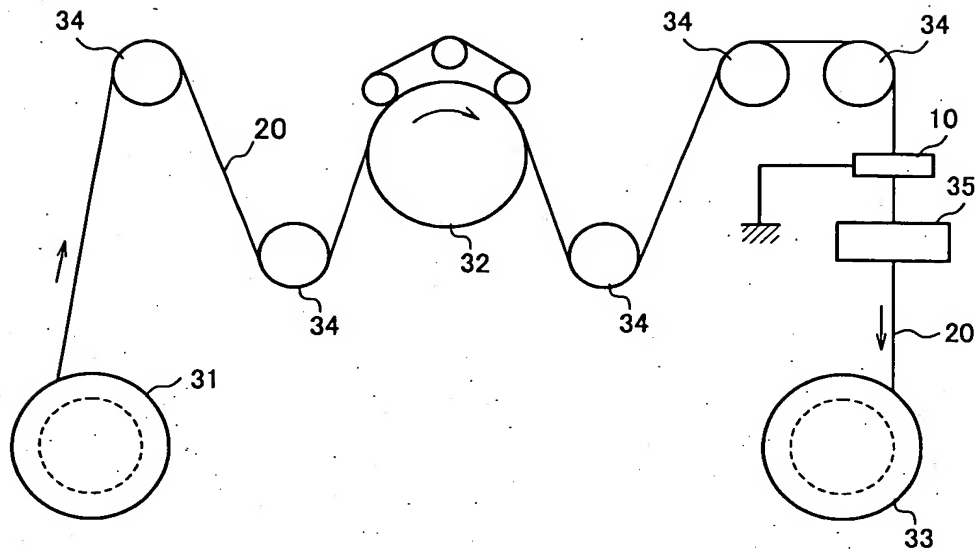


FIG. 7

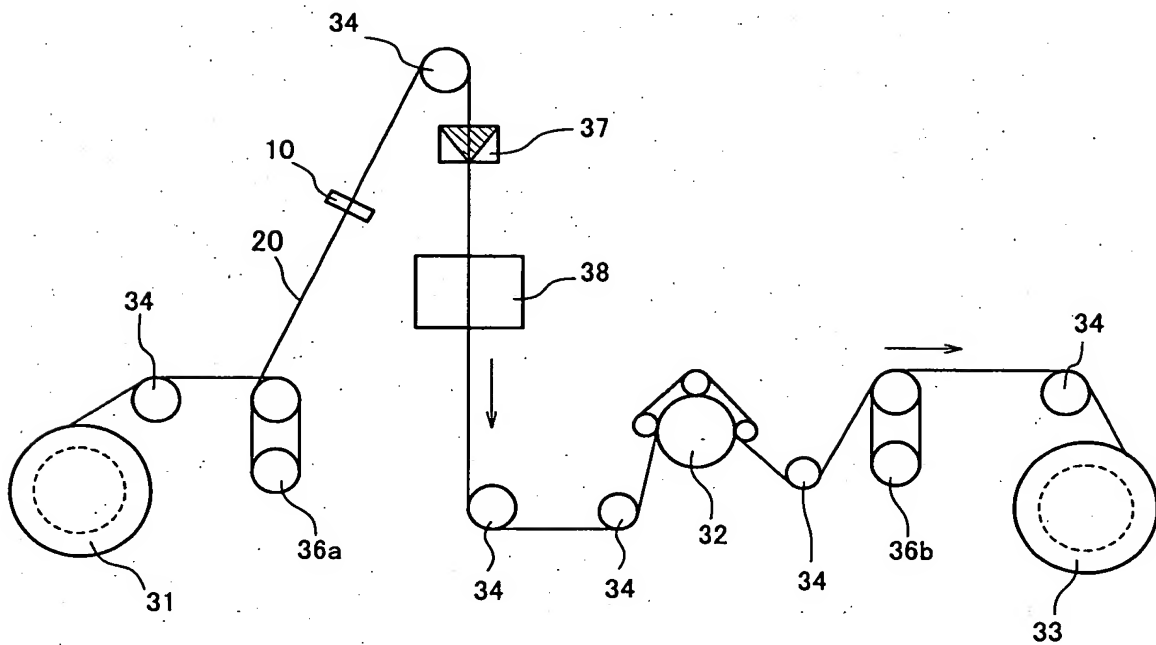


FIG. 8A

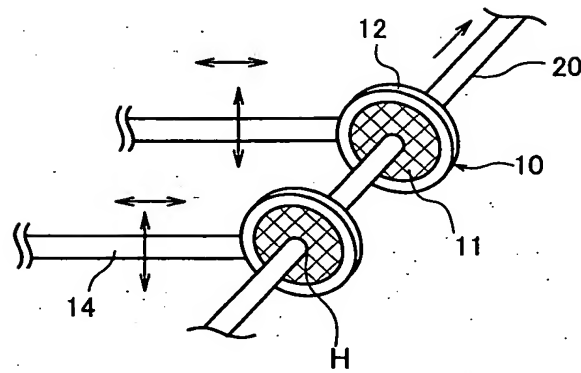


FIG. 8B

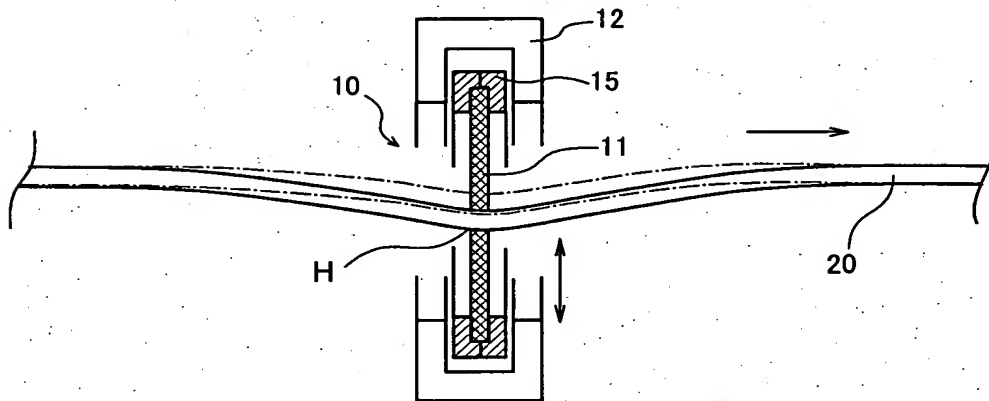


FIG. 8C

